

ABSTRACT OF THE DISCLOSURE

A wireless communication apparatus, a method thereof, and a wireless communication system employing the same. The wireless communication apparatus for transmitting and receiving data wirelessly includes a transmitting portion for transmitting the data through at least one frequency channel, and a controller for obtaining a number of transmittable channels of a counterpart wireless communication apparatus that the wireless communication apparatus intends to communicate with, and processing to transmit the data through the transmitting portion according to the obtained number of transmittable channels. Accordingly, data can be transmitted and received simultaneously through multiple channels, and time consumption for the data transmission and reception can be greatly reduced.